

List of publications: Prof. Dr. Walter Leitner

2020

- Esteban, J., Vorholt, A.J., **Leitner, W.** (2020). An overview of the biphasic dehydration of sugars to 5-hydroxymethylfurfural and furfural: a rational selection of solvents using COSMO-RS and selection guides *Green Chemistry* <https://doi.org/10.1039/C9GC04208C>
- Estes, D.P., Leutzsch, M., Schubert, L., Bordet, A., **Leitner, W.** (2020). The Effect of Ligand Electronics on the Reversible Catalytic Hydrogenation of CO₂ to Formic Acid using Ruthenium Polyhydride Complexes: A Thermodynamic and Kinetic Study *ACS Catalysis* 10(5), 2990-2998. <https://doi.org/10.1021/acscatal.0c00404>
- El Sayed, S., Bordet, A., Weidenthaler, C., Hetaba, W., Luska, K., **Leitner, W.** (2020) Selective Hydrogenation of Benzofurans using Lewis Acid Modified Ruthenium-SILP Catalysts *ACS Catalysis* 10(3), 2124-2130. <https://doi.org/10.1021/acscatal.9b05124>
- Eichel, R.-A., **Leitner, W.**, Wagemann, K. (2020). Warum wir uns mit Power-to-X beschäftigen *Chemie Ingenieur Technik* 92(1-2), 3. <https://doi.org/10.1002/cite.202070102>
- Holtz, A., Weidener, D., **Leitner, W.**, Klose, H., Grande, P.M., Jupke, A. (2020). Process development for separation of lignin from OrganoCat lignocellulose fractionation using antisolvent precipitation *Separation and Purification Technology* 236, 116295. <https://doi.org/10.1016/j.seppur.2019.116295>
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- Scott, M., Westhues, C.G., Kaiser, T., Baums, J.C., Jupke, A., Franciò, G., **Leitner, W.** (2019). Methylformate from CO₂: an integrated process combining catalytic hydrogenation and reactive distillation *Green Chemistry* 21(23), 6307-6317. <https://doi.org/10.1039/c9gc03006a>
- Strohmann, M., Bordet, A., Vorholt, A.J., **Leitner, W.** (2019). Tailor-Made Biofuel 2-Butyltetrahydrofuran from the Continuous Flow Hydrogenation and Deoxygenation of Furfuralacetone *Green Chemistry* 21(23), 6299-6306. <https://doi.org/10.1039/c9gc02555c>
- Kaithal, A., Gracia, L.-L., Camp, C., Quadrelli, E.A., **Leitner, W.** (2019). Direct Synthesis of Cycloalkanes from Diols and Secondary Alcohols or Ketones Using a Homogeneous Manganese Catalyst *Journal of the American Chemical Society* 141(44), 17487-17492. <https://doi.org/10.1021/jacs.9b08832>
- Martínez-Ferraté, O., Chatterjee, B., Werlé, C., **Leitner, W.** (2019). Hydrosilylation of carbonyl and carboxyl groups catalysed by Mn(I) complexes bearing triazole ligands *Catalysis Science & Technology* 9(22), 6370-6379. <https://doi.org/10.1039/c9cy01738k>
- Grande, P.M., Weidener, D., Dietrich, S., Dama, M., Bellof, M., Maas, R., Pauly, M., **Leitner, W.**, Klose, H., Domínguez de María, P. (2019). OrganoCat Fractionation of Empty Fruit Bunches from Palm Trees into Lignin, Sugars, and Cellulose-Enriched Pulp *ACS Omega* 4(11), 14451-14457. <https://doi.org/10.1021/acsomega.9b01371>

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